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Search Results -

Terms	Documents
L7 and PCR	59

Database:
- US Patents Full-Text Database
- US Pre-Grant Publication Full-Text Database
- JPO Abstracts Database
- EPO Abstracts Database
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- IBM Technical Disclosure Bulletins

Refine Search: L7 and PCR | Clear

Search History

Today's Date: 10/23/2001

DB Name	Query	Hit Count	Set Name
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L7 and PCR	59	L9
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L7 and thermo?	0	L8
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and tyrosine and substitut?	66	L7
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and tyrosine	326	L6
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and YxGG/A?	0	L5
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and Y-GG/A?	0	L4
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and Yx-gga?	0	L3
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	L1 and GG/A?	0	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	DNA adj polymerase?	1837	L1

PALM INTRANET

Day : Tuesday
Date: 10/23/2001
Time: 15:07:43

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	**First Name**	
Sobek	Harald	Search

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Back to || PALM || ASSIGNMENT || OASIS || Home Page

Day : Tuesday
Date: 10/23/2001
Time: 15:07:43

PALM INTRANET

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	**First Name**	
Frey	Bruno	Search

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search results for 09/803,165

1ST O.A. Non-final rej.

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Trying 3106016892...Open

Welcome to STN International!  Enter x:x
LOGINID:SSSPTA1635LAN
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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Dec 17   The CA Lexicon available in the CAPLUS and CA files
 NEWS  3  Feb 06   Engineering Information Encompass files have new names
 NEWS  4  Feb 16   TOXLINE no longer being updated
 NEWS  5  Apr 23   Search Derwent WPINDEX by chemical structure
 NEWS  6  Apr 23   PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
 NEWS  7  May 07   DGENE Reload
 NEWS  8  Jun 20   Published patent applications (A1) are now in USPATFULL
 NEWS  9  JUL 13   New SDI alert frequency now available in Derwent's
                   DWPI and DPCI
 NEWS 10  Aug 23   In-process records and more frequent updates now in
                   MEDLINE
 NEWS 11  Aug 23   PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
 NEWS 12  Aug 23   Adis Newsletters (ADISNEWS) now available on STN
 NEWS 13  Sep 17   IMSworld Pharmaceutical Company Directory name change
                   to PHARMASEARCH
 NEWS 14  Oct 09   Korean abstracts now included in Derwent World Patents
                   Index
 NEWS 15  Oct 09   Number of Derwent World Patents Index updates increased
 NEWS 16  Oct 15   Calculated properties now in the REGISTRY/ZREGISTRY File
 NEWS 17  Oct 22   Over 1 million reactions added to CASREACT
 NEWS 18  Oct 22   DGENE GETSIM has been improved

 NEWS EXPRESS  August 15 CURRENT WINDOWS VERSION IS V6.0c,
               CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
               AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 13:01:13 ON 23 OCT 2001

=> file medline embase caplus scisearch biosis reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
```

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                                                        ENTRY    SESSION
FULL ESTIMATED COST                                      0.15       0.15

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=> s DNA adj polymerase
L1             0 DNA ADJ POLYMERASE

=> s polymerase?
L2        712554 POLYMERASE?

=> s DNA?(a)polymerase
L3         91094 DNA?(A) POLYMERASE

=> s DNA?(a)polymerase?
L4         91103 DNA?(A) POLYMERASE?

=> s l4 and B?
TERM 'B?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
   1 FILES SEARCHED...

<------User Break------>
u
SEARCH ENDED BY USER
You have entered a truncated stem which occurs in too many terms.
Make the stem longer and try again.  For example, if your original
term was 'degr?' to search for variations and the abbreviation for
'degradation', you could replace it with the expression '(degrdn OR
degrad?)'.  If your search term was numeric, e.g., 'C>5', reduce the
size of the range.

=> s l4 and (b-type)
L5           145 L4 AND (B-TYPE)

=> s l4 and B-type?
L6           145 L4 AND B-TYPE?

=> s l4 and B-?
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
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ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
ADDITIONAL CHARACTERS REQUIRED AFTER '?' FOR LEFT TRUNCATION
Additional characters must follow the left truncation symbol in your
search term.  If your search term contains a punctuation mark before
the truncation symbol and you are searching in a field that uses
implied proximity, the system may interpret the truncation symbol as
being at the beginning of a term.  Implied proximity is used in search
fields indexed as single words, for example, the Basic Index.  To see
which fields in the current file have left truncation, enter "HELP
SFIELDS" at an arrow prompt (=>).

=> s l6 and exonuclease?
L7          28 L6 AND EXONUCLEASE?

=> s l6 and polymerase?
L8         145 L6 AND POLYMERASE?

=> s l6 and Y-GG?A?
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'GG?A?'
The truncation symbol ?  may be used only at the end of a search
term.  To specify a variable character within a word use '!', e.g.,
'wom!n' to search for both 'woman' and 'women'.  Enter "HELP
TRUNCATION" at an arrow prompt (=>) for more information.

=> s l6 and Y-GG/A?
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
'A?' IS NOT A VALID FIELD CODE
L9           0 L6 AND Y-GG/A?

=> s l6 and gga?
L10          0 L6 AND GGA?

=> s l6 and y?
   4 FILES SEARCHED...
<------User Break------>
u
SEARCH ENDED BY USER

=> d history

     (FILE 'HOME' ENTERED AT 13:01:13 ON 23 OCT 2001)

     FILE 'MEDLINE, EMBASE, CAPLUS, SCISEARCH, BIOSIS, REGISTRY' ENTERED AT
     13:01:33 ON 23 OCT 2001
L1             0 S DNA ADJ POLYMERASE
L2        712554 S POLYMERASE?
L3         91094 S DNA?(A)POLYMERASE
L4         91103 S DNA?(A)POLYMERASE?
L5           145 S L4 AND (B-TYPE)
L6           145 S L4 AND B-TYPE?
```

```
L7            28 S L6 AND EXONUCLEASE?
L8           145 S L6 AND POLYMERASE?
L9             0 S L6 AND Y-GG/A?
L10            0 S L6 AND GGA?

=> dup rem l7
DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L7
COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> dup rem l7
DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L7
COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> s l7 and PCR
L13            7 L7 AND PCR

=> dup rem l13
DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L13
L14            4 DUP REM L13 (3 DUPLICATES REMOVED)

=> d l14 ibib abs 1-
YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

L14  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2001 ACS
ACCESSION NUMBER:         2001:676310  CAPLUS
DOCUMENT NUMBER:          135:237584
TITLE:                    Methods of making mutant B-type
                          DNA polymerases from Thermococcus
                          aggregans with improved performance in PCR
INVENTOR(S):              Sobek, Harald; Frey, Bruno; Antranikian, Garabed;
                          Boehlke, Kristina; Pisani, Francesca Maria; Rossi,
                          Mose
PATENT ASSIGNEE(S):       Roche Diagnostics G.m.b.H., Germany
SOURCE:                   Eur. Pat. Appl., 40 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.   DATE
     ---------------   ----  --------       ---------------   --------
     EP 1132474         A1   20010912       EP 2001-1104583   20010306
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     JP 2001269188      A2   20011002       JP 2001-61781     20010306
PRIORITY APPLN. INFO.:                   EP 2000-105155   A  20000311
AB   The invention provides methods of making mutant B-type
```

DNA polymerase with high performance in **PCR**.
In particular, the invention discloses that wild type **B-type DNA polymerases** have a Y-GG/A amino acid motif between the N-terminal 3'-5'-**exonuclease** domain and the C-terminal polymerase domain whereas the tyrosine of the Y-GG/A amino acid motif is mutated and the mutant **DNA polymerases** are suitable for **PCR** and other nucleic acid synthesizing reactions, and have a better performance. The invention also provides methods of producing the mutants, vectors and cell lines comprising genes encoding the mutants.

REFERENCE COUNT: 4

REFERENCE(S):
(1) BOhlke, K; NUCLEIC ACIDS RESEARCH 2000, V28(20), P3910 MEDLINE
(2) Boehringer Mannheim Gmbh; DE 19611759 A 1997 CAPLUS
(3) Pisani, F; BIOCHEMISTRY 1998, V37(42), P15005 CAPLUS
(4) Truniger, V; EMBO JOURNAL 1996, V15(13), P3430 CAPLUS

L14 ANSWER 2 OF 4 MEDLINE DUPLICATE 1

ACCESSION NUMBER: 2000478261 MEDLINE
DOCUMENT NUMBER: 20482208 PubMed ID: 11024170

TITLE: **PCR** performance of the **B-type DNA polymerase** from the thermophilic euryarchaeon Thermococcus aggregans improved by mutations in the Y-GG/A motif.

AUTHOR: Bohlke K; Pisani F M; Vorgias C E; Frey B; Sobek H; Rossi M; Antranikian G
CORPORATE SOURCE: Institute of Technical Microbiology, Technical University Hamburg-Harburg, Denickestrabetae 15, 21073 Hamburg, Germany.

SOURCE: NUCLEIC ACIDS RESEARCH, (2000 Oct 15) 28 (20) 3910-7. Journal code: O8L; 0411011. ISSN: 1362-4962.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200010
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010521
Entered Medline: 20001031

AB The effect of mutations in the highly conserved Y-GG/A motif of **B-type DNA polymerases** was studied in the **DNA polymerase** from the hyperthermophilic euryarchaeon Thermococcus aggregans. This motif plays a critical role in the balance between the synthesis and degradation of the DNA chain. Five different mutations of the tyrosine at position 387 (Tyr387-->Phe, Tyr387-->Trp, Tyr387-->His, Tyr387-->Asn and Tyr387-->Ser) revealed that an aromatic ring system is crucial for the synthetic activity of the enzyme. Amino acids at this position lacking the ring system (Ser and Asn) led to a significant decrease in polymerase activity and to enhanced **exonuclease** activity, which resulted in improved enzyme fidelity. Exchange of tyrosine to phenylalanine, tryptophan or histidine led to phenotypes with wild-type-like fidelity but enhanced **PCR** performance that could be related to a higher velocity of polymerisation. With the help of a modelled structure of T.aggregans **DNA polymerase**, the biochemical data were interpreted proposing that the conformation of the flexible loop containing the Y-GG/A motif is an

important factor for the equilibrium between DNA polymerisation and exonucleolysis.

L14 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 2
ACCESSION NUMBER: 2000:762603 CAPLUS
DOCUMENT NUMBER: 134:322588
TITLE: **PCR** performance of the **B-type DNA polymerase** from the thermophilic euryarchaeon Thermococcus aggregans improved by mutations in the Y-GG/A motif
AUTHOR(S): Bohike, Kristina; Pisani, Francesca M.; Vorgias, Constantinos E.; Frey, Bruno; Sobek, Harald; Rossi, Mose; Antranikian, Garabed
CORPORATE SOURCE: Institute of Technical Microbiology, Technical University Hamburg-Harburg, Hamburg, 21073, Germany
SOURCE: Nucleic Acids Res. (2000), 28(20), 3910-3917
CODEN: NARHAD; ISSN: 0305-1048
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The effect of mutations in the highly conserved Y-GG/A motif of **B-type DNA polymerases** was studied in the **DNA polymerase** from the hyperthermophilic euryarchaeon Thermococcus aggregans. This motif plays a crit. role in the balance between the synthesis and degrdn. of the DNA chain. Five different mutations of the tyrosine at position 387 (Tyr387.fwdarw.Phe, Tyr387.fwdarw.Trp, Tyr387.fwdarw.His, Tyr387.fwdarw.Asn and Tyr387.fwdarw.Ser) revealed that an arom. ring system is crucial for the synthetic activity of the enzyme. Amino acids at this position lacking the ring system (Ser and Asn) led to a significant decrease in polymerase activity and to enhanced **exonuclease** activity, which resulted in improved enzyme fidelity. Exchange of tyrosine to phenylalanine, tryptophan or histidine led to phenotypes with wild-type-like fidelity but enhanced **PCR** performance that could be related to a higher velocity of polymn. With the help of a modeled structure of T. aggregans **DNA polymerase**, the biochem. data were interpreted proposing that the conformation of the flexible loop contg. the Y-GG/A motif is an important factor for the equil. between DNA polymn. and exonucleolysis.
REFERENCE COUNT: 37
REFERENCE(S): (1) Barnes, W; Proc Natl Acad Sci 1994, V91, P2216 CAPLUS
(2) Bult, C; Science 1996, V273, P1058 CAPLUS
(4) Cann, I; J Bacteriol 1999, V181, P5984 CAPLUS
(5) Cann, I; Proc Natl Acad Sci 1998, V95, P14250 CAPLUS
(6) Dong, Q; J Biol Chem 1993, V268, P24163 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:354514 CAPLUS
DOCUMENT NUMBER: 131:154392
TITLE: Molecular cloning, sequence and expression of Aa-polB, a mitochondrial gene encoding a family B **DNA polymerase** from the edible basidiomycete Agrocybe aegerita
AUTHOR(S): Bois, F.; Barroso, G.; Gonzalez, P.; Labarere, J.
CORPORATE SOURCE: Laboratoire de Genetique Moleculaire et d'Amelioration

des Champignons Cultives, CRA de Bordeaux, Villenave d'Ornon Cedex, F-33883, Fr.
SOURCE: Mol. Gen. Genet. (1999), 261(3), 508-513
CODEN: MGGEAE; ISSN: 0026-8925
PUBLISHER: Springer-Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English

AB An ORF of 1716 nucleotides, putatively encoding a **DNA polymerase**, was characterized in the mitochondrial genome of the edible basidiomycete Agrocybe aegerita. The complete gene, named Aa-polB, and its flanking regions were cloned and sequenced from three overlapping restriction fragments. Aa-polB is located between the SSU rDNA (5' region) and a gene for tRNA Asn (3' region), and is sepd. from these genes by two A +T-rich intergenic regions of 1048 (5' region) and 3864 (3' region) nucleotides, which lack repeated sequences of mitochondrial or plasmid origin. The deduced Aa-POLB protein shows extensive sequence similarity with the family B **DNA polymerases** encoded by genomes that rely on protein-primed replication (invertrons). The domains involved in the 3'.fwdarw.5' **exonuclease** (Exo I to III) and polymerase (Pol I to Pol V) activities were localized on the basis of conserved sequence motifs. The alignment of the Aa-POLB protein (571 amino acids) with sequences of family B **DNA polymerases** from invertrons revealed that in Aa-POLB the N-terminal region preceding Exo I is short, suggesting a close relationship with the **DNA polymerases** of bacteriophages that have linear DNA. The Aa-polB gene was shown to be present in all wild strains examd., which were collected from a wide range of locations in Europe. As shown by RT-**PCR**, the Aa-polB gene is transcribed in the mitochondria, at a low but significant level. The likelihood of the coexistence of Aa-POLB and Pol .gamma. in the A. aegerita mitochondrion is discussed in the light of recent reports showing the conservation of the nucleus-encoded Pol .gamma. from yeast to human.

REFERENCE COUNT: 28
REFERENCE(S):
(1) Altschul, S; J Mol Biol 1990, V215, P403 CAPLUS
(2) Barroso, G; Appl Environ Microbiol 1995, V61, P1187 CAPLUS
(3) Blanco, L; Gene 1991, V100, P27 CAPLUS
(6) Coleman, A; J Protozool 1991, V38, P129 CAPLUS
(7) Dohmen, G; Curr Genet 1994, V25, P59 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

---Logging off of STN---

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